

**ABSTRACT OF THE DISCLOSURE**

Featured are a system and method for designing a gear driving system. The designing system includes a characteristic setting section, calculating section and comparing section. The calculating section simulates an oscillation that is caused in the final gear of the gear driving system, based on the gear characteristic value(s) set in the characteristic setting section. The comparing section judges whether or not the frequency and amplitude of the oscillation obtained by the simulation fall within an acceptable range. If the frequency and amplitude do not fall within the acceptable range, the characteristic changing section changes the setting of a gear characteristic value, and the processes of the calculating section and the comparing section, as well as that of the characteristic changing section are repeated until it is judged that one of the frequency or amplitude of the simulated oscillation falls within the acceptable range.